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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-04-18-16 **Date: 05-02-22**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and other Works in Abbigere Pashchimcounty and Surrounding Area in Ward No. 12 Shettyhalli.
Agency	:	Sri. KUMARA B J (K B CONSTRUCTIONS), #01, Sri Nilaya, Behind Rangamandira, Devarabhavi Road, Bagalgunte, Nagasandra (P), Bangalore - 560073
Customer's Reference	:	EE/DD/W.O/78/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-01-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	08-01-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-18-16** **Date: 10-01-22**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and other Works in Abbigere Pashchimcounty and Surrounding Area in Ward No. 12 Shettyhalli.
Agency	:	Sri. KUMARA B J (K B CONSTRUCTIONS), #01, Sri Nilaya, Behind Rangamandira, Devarabhavi Road, Bagalgunte, Nagasandra (P), Bangalore - 560073
Customer Reference	:	EE/DD/W.O/78/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-01-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-01-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-04-18-16** **Date: 10-01-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-04-18-16** **Date: 10-01-22**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and other Works in Abbigere Pashchimcounty and Surrounding Area in Ward No. 12 Shettyhalli.

Agency : Sri. KUMARA B J (K B CONSTRUCTIONS), #01, Sri Nilaya, Behind Rangamandira, Devarabhavi Road, Bagalgunte, Nagasandra (P), Bangalore - 560073

Customer's Reference : EE/DD/W.O/78/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-01-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 07-01-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	31	31	3.1	96.9	90-100	90-100	90-100	95-100
3	2.36 mm	192	223	22.3	77.7	60-95	75-100	85-100	95-100
4	1.18 mm	152	375	37.5	62.5	30-70	55-90	75-100	90-100
5	600 micron	255	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	186	816	81.6	18.4	5-20	8-30	12-40	15-50
7	150 micron	89	905	90.5	9.5	0-10	0-10	0-10	0-15
8	Pan	95	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-04-18-16** **Date: 10-01-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	9.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-18-16 **Date: 08/02/2022**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and other Works in Abbigere Pashchimcounty and Surrounding Area in Ward No. 12 Shettyhalli.

Agency : Sri. KUMARA B J (K B CONSTRUCTIONS), #01, Sri Nilaya, Behind Rangamandira, Devarabhavi Road, Bagalgunte, Nagasandra (P), Bangalore - 560073

Customer's Reference : EE/DD/W.O/78/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-02-22

Customer ID : Drain Concrete Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M25	01/02/2022	08/02/2022	149.52 X 149.94 X 149.82	22419	8.587	531.2	23.7	22.9
2	Drain Concrete Bottom Raft	M25	01/02/2022	08/02/2022	150.12 X 151.21 X 149.49	22701	8.685	515.3	22.7	
3	Drain Concrete Bottom Raft	M25	01/02/2022	08/02/2022	150.95 X 150.92 X 151.48	22782	8.946	505.4	22.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-18-16**

Date: 02/03/2022

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and other Works in Abbigere Pashchimcounty and Surrounding Area in Ward No. 12 Shettyhalli.

Agency : Sri. KUMARA B J (K B CONSTRUCTIONS), #01, Sri Nilaya, Behind Rangamandira, Devarabhavi Road, Bagalgunte, Nagasandra (P), Bangalore - 560073

Customer's Reference : EE/DD/W.O/78/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-02-22

Customer ID : Drain Concrete Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M25	01/02/2022	01/03/2022	151.23 X 149.62 X 151.60	22628	8.990	624.9	27.6	27.4
2	Drain Concrete Bottom Raft	M25	01/02/2022	01/03/2022	149.54 X 150.09 X 150.70	22444	8.321	589.7	26.3	
3	Drain Concrete Bottom Raft	M25	01/02/2022	01/03/2022	149.54 X 150.37 X 151.78	22486	8.384	637.5	28.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2022-04-18-16**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and other Works in Abbigere Pashchimcounty and Surrounding Area in Ward No. 12 Shettyhalli.
Agency	:	Sri. KUMARA B J (K B CONSTRUCTIONS), #01, Sri Nilaya, Behind Rangamandira, Devarabhavi Road, Bagalgunte, Nagasandra (P), Bangalore - 560073
Customer's Reference	:	EE/DD/W.O/78/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-22
Customer ID	:	Drain Concrete Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 08/02/2022

Date of test : 08/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M25	01/02/2022	08/02/2022	149.79 X 149.89 X 149.23	22452	8.267	534.5	23.8	22.7
2	Drain Concrete Bottom Raft	M25	01/02/2022	08/02/2022	150.60 X 149.85 X 150.61	22568	8.409	500.6	22.2	
3	Drain Concrete Bottom Raft	M25	01/02/2022	08/02/2022	149.70 X 151.89 X 150.35	22737	8.502	501.0	22.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-18-16 **Date: 02/03/2022**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and other Works in Abbigere Pashchimcounty and Surrounding Area in Ward No. 12 Shettyhalli.

Agency : Sri. KUMARA B J (K B CONSTRUCTIONS), #01, Sri Nilaya, Behind Rangamandira, Devarabhavi Road, Bagalgunte, Nagasandra (P), Bangalore - 560073

Customer's Reference : EE/DD/W.O/78/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-02-22

Customer ID : Drain Concrete Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M25	01/02/2022	01/03/2022	149.70 X 151.91 X 151.11	22741	8.244	622.9	27.4	27.4
2	Drain Concrete Bottom Raft	M25	01/02/2022	01/03/2022	150.93 X 151.58 X 149.40	22878	8.246	607.0	26.5	
3	Drain Concrete Bottom Raft	M25	01/02/2022	01/03/2022	151.80 X 150.88 X 151.79	22905	8.866	647.7	28.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-18-16** **Date: 10/02/2022**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and other Works in Abbigere Pashchimcounty and Surrounding Area in Ward No. 12 Shettyhalli.

Agency : Sri. KUMARA B J (K B CONSTRUCTIONS), #01, Sri Nilaya, Behind Rangamandira, Devarabhavi Road, Bagalgunte, Nagasandra (P), Bangalore - 560073

Customer's Reference : EE/DD/W.O/78/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-02-22

Customer ID : Drain Concrete Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M25	03/02/2022	10/02/2022	151.40 X 150.61 X 150.38	22803	8.894	544.3	23.9	23.1
2	Drain Concrete Side Wall	M25	03/02/2022	10/02/2022	149.47 X 151.69 X 151.85	22674	8.527	518.0	22.8	
3	Drain Concrete Side Wall	M25	03/02/2022	10/02/2022	151.14 X 150.69 X 149.04	22776	8.370	515.2	22.6	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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